

HUDSON OIL CORPORATION

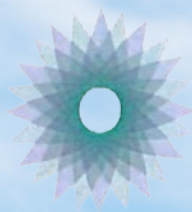
Bridging Businesses together

Ruchliwa 15, 02-182 Warszawa, Polska
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Kazakhstan
BIN: 180140025638

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STANDARD SPECIFICATION OF AVIATION JET FUEL A1

COMPOSITION		
Appearance	C&B (1)	Visual
Colour, Saybolt	Report (2)	D156, D6045
Acidity, Total (mg KOH/g)	Max. 0.10	D3242, IP 354
Aromatics (vol %)	Max. 25.0	D1319, IP 156, GOST R 52063
Sulphur, Total (wt %)	Max. 0.25,	D1266, D1552, D2622, D4294, D5453, IP107, IP 243, IP 336, IP 373, IP 447, GOST R 51947, GOST R 51859
Sulphur, Mercaptan (wt %)	Max. 0.0030 (3)	D3227, IP 342, GOST R 52030
OR Doctor Test	Negative (3)	D4952, IP 30
VOLATILITY		
Distillation Temperature:		D86, IP 123
10% Recovery (°C)	Max. 205.0	
50% Recovery (°C)	Report	
90% Recovery (°C)	Report	
Final BP (°C)	Max. 300.0	
Distillation Residue (vol %)	Max. 1.5	
Distillation Loss (vol %)	Max. 1.5	
Flash Point (°C)	Min. 38.0	D56 (4), D3828, IP170
Density @ 15°C (kg/m3)	775.0 - 840.0	D1298, D4052, IP 160, IP 365, GOST R 51069
FLUIDITY		
Freezing Point (°C)	Max. -47.0 (5)	D2386, D5972, D 7153, IP 16, IP 435, IP 529
Viscosity @ -20°C (cSt)	Max. 8	D445, IP 71
COMBUSTION		
Net Heat of Combustion (MJ/kg)	Min. 42.80 (6)	D3338, D4529, D4809, IP 12, IP 355
Smoke Point (mm)	Min. 25	D1322, IP 57
OR Smoke Point (mm)	Min. 19	D1322, IP57
AND Naphthalenes (vol %)	Max. 3	D1840
CORROSION		
Copper Strip (2h @ 100°C)	Max. No.1	D130, IP 154
THERMAL STABILITY		
JFTOT 6P @ 260°C (mm Hg) Tube Rating (Visual)	Max. 25 Max. <3 (7)	D3241, IP 123
CONTAMINANTS		
Existent Gum	Max. 7 (8)	D381, IP 131
Water Reaction Interface Rating	Max. 1b	D1094
MSEP Rating Fuel without SDA	Min. 85	
Fuel with SDA	Min. 70	
Particulates (mg/dm3)	Max. 1.0 (2)	D5452, IP423
OTHER		
Conductivity (pS/m)	50-600	D2624, IP 274, GOST 25950
Without SDA	Max. 10	
BOCLE Wear Scar Diameter (mm)	Max. 0.85 (9)	D5001
ADDITIVES		
Antioxidant	Optional (24 mg/L max)	
Static Dissipator	Optional (10)	
Lubricity Improver	Optional (11)	



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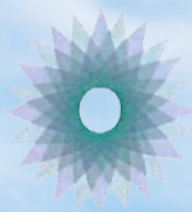
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Product Information Sheet

COMPOSITION	-	JET A-1 KEROSENE	TEST METHOD ASTM	TEST METHOD IP
APPEARANCE	-	C & B (1)	-	-
ACIDITY, TOTAL (MG KOH/G)	Max.	0.015	D3242	35 4
AROMATICS (VOL %)	Max.	25.0	D1319	15 6
OR TOTAL AROMATICS (VOL %)	Max.	26.5	-	43 6
SULPHUR, TOTAL (WT %)	Max.	0.30	D1266, D1552,	107, 243, 336,
SULPHUR, MERCAPTAN (WT %)	Max.	0.0030	D3227	34 2
OR DOCTOR TEST	-	Negative	D4952	3 0
H/P COMPONENTS (VOL%)	-	Report	-	-
SEVERELY H/P COMPONENTS (VOL%) (2)	-	Report	-	-
VOLATILITY	-	-	-	-
DISTILLATION TEMPERATURE:	-	-	D8 6	12 3
INITIAL BP (°C)	-	Report	-	-
10% RECOVERY (°C)	Max.	205.0	-	-
50% RECOVERY (°C)	Max.	Report	-	-
90% RECOVERY (°C)	Max.	Report	-	-
FINAL BP (°C)	Max.	300.0	-	-
DISTILLATION RESIDUE (VOL %)	Max.	1.5	-	-
DISTILLATION LOSS (VOL %)	Max.	1.5	-	-
FLASH POINT (°C)	Min.	38.0	D56, D3828	170, 303
DENSITY @ 15°C (KG/M3)	-	775.0-840.0	D1298, D4052	160, 365
FLUIDITY	-	-	-	-
FREEZING POINT (°C)	Max.	-47.0	D2386, D5972	1 6
VISCOSITY @ -20°C (CST)	Max.	8.000	D445	7 1
COMBUSTION	-	-	-	-
NET HEAT OF COMB. (MJ/KG)	MIN.	42.80	D3338, D4529,	12, 381, 355



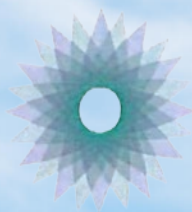
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1	Appearance			
1.1	Visual appearance	Clear & Bright, free from solid matter & undissolved water at ambient temperature		Clear & Bright
1.2	Color	Report	ASTM D 156 or ASTM D 6054	25
1.3	Particulate Contamination at point of manufacture, mg/l	1.0 max	IP 423 / ASTM D 5425	0.80
1.4	Particulate at point of manufacture			
1.4.1	$\geq 4 \mu\text{m(c)}$	Report	IP 564 or IP 565	2500
1.4.2	$\geq 6 \mu\text{m(c)}$	Report		950
1.4.3	$\geq 14 \mu\text{m(c)}$	Report		99
1.4.4	$\geq 21 \mu\text{m(c)}$	Report		22
1.4.5	$\geq 25 \mu\text{m(c)}$	Report		15
1.4.6	$\geq 30 \mu\text{m(c)}$	Report		10
2	Composition			
2.1	Total Acidity, mg KOH/gm	0.015 max.	ASTM D 3242	0.009
2.2	Aromatic Hydrocarbon types			
2.2.1	Aromatic % v/v	25 max	IP 156 / ASTM D 1319	18.5
2.2.2	Total aromatic % v/v	26.5 max	IP 436 / ASTM D 6379	18.5
2.3	Sulphur, Total %m/m	0.3 max	ASTM D 4294	0.25
	Sulphur Mercaptan %m/m	0.003 max	ASTM D 3227	0.0020
2.4				
or	Doctor Test	Doctor Negative	IP 30	
2.5				
2.6	Refining component, at the point of manufacture			
2.6.1	1. Hydro processed component, % v/v	Report		
2.6.2	2. Severely hydro processed component %v/v	Report		
3	Volatility			
3.1	Distillation -IBP °C,	-	ASTM D 80	155



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	Fuel Recovered 10%by Volume at 0C	205 max	-	171
	Fuel Recovered 50%	Report	-	195
	by Volume at 0C			
	Fuel Recovered 90% by Volume at 0C	Report	-	195
	Final boiling point 0C	300 Max	-	254
	Residue % volume	1.5 Max	-	1.0
	Lose % Volume	1.5	-	1.0
3.2	Flash point 0C	38 Min	IP 170	42
3.3	Density @15 0C kg/m3	Min 775.0 Max 840.0	IP 365 /ASTM D 4052	799
4	Fluidity			
4.1	Freezing point 0C	Minus 47 Max	IP 16/ ASTM D 2386	Minus 52
4.2	Kin Viscosity at minus 20 0C mm2/s	8.00 Max	IP 71 / ASTM D 445	4.10
5	Combustion			
5.1	Smoke point, mm or	25 Min	ASTMD 1322 / IP 57	24
	Smoke point	19 Min	ASTMD 1322 / IP 57	
	And Naphtalene % Vol	3 Max	ASTM D 1840	2.3
5.2	Specific Energy ml/kg Min	42.8	Annex C	43.27
6	Corrosion			
6.1	Cu strip for 2 hours @ 1000C	Not worse than No. 1	ASTM D 130	No.1
7	Thermal Stability JEFOT			
7.1	Thermal Stability Jefot		IP 323 / ASTM D 3241	
	Test Temperature, 0C	Min 260		
7.2	Tube rating, visual	< 3 (no peacock) or abnormal color		Zero, no peacock